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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A'Block,3rdCross, 5th Main,
Sahakarnagar,Bangalore-560092
098869 13195,080236 29195

Test Results of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)

Date: 16-03-2020

After Extraction (Trial-1)

Total wt of the sample (gms): 475.55

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-17) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	12	12	2.5	97.5	90-100	Satisfactory
9.5	77	89	18.7	81.3	70-88	Satisfactory
4.75	115	204	42.9	57.1	53-71	Satisfactory
2.36	70	274	57.6	42.4	42-56	Satisfactory
1.18	22	296	62.2	37.8	34-48	Satisfactory
0.6	19	315	66.2	33.8	26-38	Satisfactory
0.3	41	356	74.9	25.1	18-28	Satisfactory
0.15	41	397	83.5	16.5	12-20	Satisfactory
0.075	33	430	90.4	9.6	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-2)

Total wt of the sample (gms): 475.72

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	11	11	2.3	97.7	90-100	Satisfactory
9.5	79	90	18.9	81.1	70-88	Satisfactory
4.75	101	191	40.2	59.8	53-71	Satisfactory
2.36	79	270	56.8	43.2	42-56	Satisfactory
1.18	29	299	62.9	37.1	34-48	Satisfactory
0.6	11	310	65.2	34.8	26-38	Satisfactory
0.3	34	344	72.3	27.7	18-28	Satisfactory
0.15	44	388	81.6	18.4	12-20	Satisfactory
0.075	40	428	90.0	10.0	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-3)

Total wt of the sample (gms): 476.09

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	13	13	2.7	97.3	90-100	Satisfactory
9.5	71	84	17.7	82.3	70-88	Satisfactory
4.75	110	194	40.8	59.2	53-71	Satisfactory
2.36	68	262	55.1	44.9	42-56	Satisfactory
1.18	32	294	61.8	38.2	34-48	Satisfactory
0.6	26	320	67.3	32.7	26-38	Satisfactory
0.3	43	363	76.3	23.7	18-28	Satisfactory
0.15	46	409	86.0	14.0	12-20	Satisfactory
0.075	39	448	94.2	5.8	4-10	Satisfactory

Remarks: Satisfactory

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Name of work: Improvements to Roads and Drains in BEL Layout, HMT Layout, Rajivagandhi Nagar (NTI), Thindhu and surrounding in ward No. 09			
Test Reults of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)			
IS 2386 (Part-1) 1963 (Reaffirmed-2011)			Date: 18-03-2020
Lab I'd	ISO/IEC17025:2005		
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.		
Consultant	Transheight Consultants Private Limited		
Contractor	B.B Umesh (S.M.L.P Asphats)		
Customer Reference	BBMP/EE/BTP/WO/110/2019-20		
Source of Sample	Sample supplied by Agency		
Type of Mix	Bituminous Concrete (BC)		
Date of Test	3/18/2020		
Calculation			
	Chainage:		
	Trial 1	Trial 2	Trial 3
Wt of empty Bowl (g)	1035	1034	1035
Wt of empty Bowl + Mix before extraction (g)	1535	1534	1535
Wt of empty Bowl + Mix after extraction (g)	1508.7	1507.6	1509.1
Wt of filter paper before extraction (g)	3.5	3.5	3.5
Wt of filter paper after extraction (g)	5.26	5.34	5.39
Wt of fines (g)	1.76	1.84	1.89
Wt of aggrigate (g)	475.41	475.4	475.99
Wt of bitumin (g)	26.35	26.44	25.9
% binder contents in mix	5.54	5.56	5.44
Avg binder contents in mix (%)	5.52		
Remarks :			
PMC	Client	Contractor	

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Test Results of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)

Date: 18-03-2020

After Extraction (Trial-1)

Total wt of the sample (gms): 475.41

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-17) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	12	15	3.2	96.8	90-100	Satisfactory
9.5	95	109	22.9	77.1	70-88	Satisfactory
4.75	108	219	46.1	53.9	53-71	Satisfactory
2.36	49	265	55.7	44.3	42-56	Satisfactory
1.18	38	301	63.3	36.7	34-48	Satisfactory
0.6	42	340	71.5	28.5	26-38	Satisfactory
0.3	35	376	79.1	20.9	18-28	Satisfactory
0.15	33	407	85.6	14.4	12-20	Satisfactory
0.075	30	437	91.9	8.1	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-2)

Total wt of the sample (gms): 475.4

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	10	12	2.5	97.5	90-100	Satisfactory
9.5	93	103	21.7	78.3	70-88	Satisfactory
4.75	108	214	45.0	55.0	53-71	Satisfactory
2.36	58	275	57.8	42.2	42-56	Satisfactory
1.18	36	309	65.0	35.0	34-48	Satisfactory
0.6	31	338	71.1	28.9	26-38	Satisfactory
0.3	35	370	77.8	22.2	18-28	Satisfactory
0.15	26	391	82.2	17.8	12-20	Satisfactory
0.075	38	434	91.3	8.7	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-3)

Total wt of the sample (gms): 475.99

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	9	11	2.3	97.7	90-100	Satisfactory
9.5	94	107	22.5	77.5	70-88	Satisfactory
4.75	111	215	45.2	54.8	53-71	Satisfactory
2.36	45	256	53.8	46.2	42-56	Satisfactory
1.18	46	300	63.1	36.9	34-48	Satisfactory
0.6	41	338	71.1	28.9	26-38	Satisfactory
0.3	35	369	77.6	22.4	18-28	Satisfactory
0.15	26	392	82.5	17.5	12-20	Satisfactory
0.075	38	429	90.2	9.8	4-10	Satisfactory

Remarks: Satisfactory

PMC Client Contractor

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Name of work: Improvements to Roads and Drains in BEL Layout, HMT Layout, Rajivagandhi Nagar (NTI), Thindhu and surrounding in ward No. 09			
Test Reults of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)			
IS 2386 (Part-1) 1963 (Reaffirmed-2011)		Date: 18-03-2020	
Lab I'd	ISO/IEC17025:2005		
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.		
Consultant	Transheight Consultants Private Limited		
Contractor	B.B Umesh (S.M.L.P Asphats)		
Customer Reference	BBMP/EE/BTP/WO/110/2019-20		
Source of Sample	Sample supplied by Agency		
Type of Mix	Bituminous Concrete (BC)		
Date of Test	3/18/2020		
Calculation			
	Chainage:		
	Trial 1	Trial 2	Trial 3
.	1035	1034	1034
Wt of empty Bowl + Mix before extraction (g)	1535	1534	1534
Wt of empty Bowl + Mix after extraction (g)	1508.7	1508.2	1507.8
Wt of filter paper before extraction (g)	3.5	3.5	3.5
Wt of filter paper after extraction (g)	5.33	5.67	5.39
Wt of fines (g)	1.83	2.17	1.89
Wt of aggrigate (g)	475.48	476.37	475.69
Wt of bitumin (g)	26.35	25.8	26.2
% binder contents in mix	5.54	5.42	5.51
Avg binder contents in mix (%)	5.49		
Remarks :			
PMC	Client	Contractor	

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Test Results of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)

Date: 18-03-2020

After Extraction (Trial-1)

Total wt of the sample (gms): 475.48

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-17) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	11	15	3.2	96.8	90-100	Satisfactory
9.5	74	91	19.1	80.9	70-88	Satisfactory
4.75	112	205	43.1	56.9	53-71	Satisfactory
2.36	75	285	59.9	40.1	42-56	Satisfactory
1.18	28	308	64.8	35.2	34-48	Satisfactory
0.6	22	332	69.8	30.2	26-38	Satisfactory
0.3	45	379	79.7	20.3	18-28	Satisfactory
0.15	42	423	89.0	11.0	12-20	Satisfactory
0.075	30	455	95.7	4.3	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-2)

Total wt of the sample (gms): 476.37

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	14	15	3.2	96.8	90-100	Satisfactory
9.5	75	92	19.3	80.7	70-88	Satisfactory
4.75	102	195	41.0	59.0	53-71	Satisfactory
2.36	81	271	57.0	43.0	42-56	Satisfactory
1.18	31	300	63.1	36.9	34-48	Satisfactory
0.6	15	312	65.6	34.4	26-38	Satisfactory
0.3	45	360	75.7	24.3	18-28	Satisfactory
0.15	43	401	84.3	15.7	12-20	Satisfactory
0.075	41	440	92.5	7.5	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-3)

Total wt of the sample (gms): 475.69

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	11	13	2.7	97.3	90-100	Satisfactory
9.5	73	84	17.7	82.3	70-88	Satisfactory
4.75	110	192	40.4	59.6	53-71	Satisfactory
2.36	75	265	55.7	44.3	42-56	Satisfactory
1.18	32	295	62.0	38.0	34-48	Satisfactory
0.6	25	315	66.2	33.8	26-38	Satisfactory
0.3	43	361	75.9	24.1	18-28	Satisfactory
0.15	41	405	85.2	14.8	12-20	Satisfactory
0.075	40	443	93.2	6.8	4-10	Satisfactory

Remarks: Satisfactory

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Name of work:Improvements to Roads and Drains in Muthuraya Swamy layout, Doddabomasandra, Nanjappa layout, Chamundeshwari Layout in Ward No. 10.			
Test Reults of Bitumen Binder Content and Gradation for Bituminous Macadam (BM-II)			
IS 2386 (Part-1) 1963 (Reaffirmed-2011)		Date: 16-03-2020	
Lab I'd	ISO/IEC17025:2005		
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.		
Consultant	Transheight Consultants Private Limited		
Contractor	B.B Umesh (S.M.L.P Asphats)		
Customer Reference	BBMP/EE/BTP/WO/110/2019-20		
Source of Sample	Sample supplied by Agency		
Type of Mix	Bituminous Macadam (BM-II)		
Date of Test	3/16/2020		
Calculation			
	Chainage:		
	Trial 1	Trial 2	Trial 3
Wt of empty Bowl (g)	1031	1032	1032
Wt of empty Bowl + Mix before extraction (g)	1531	1532	1532
Wt of empty Bowl + Mix after extraction (g)	1514.2	1514.9	1515.1
Wt of filter paper before extraction (g)	3.5	3.5	3.5
Wt of filter paper after extraction (g)	5.3	5.32	5.35
Wt of fines (g)	1.8	1.82	1.85
Wt of aggrigate (g)	485	484.72	484.95
Wt of bitumin (g)	16.8	17.1	16.9
% binder contents in mix	3.46	3.53	3.48
Avg binder contents in mix (%)	3.49		
Remarks :			
PMC	Client	Contractor	

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Test Reults of Bitumen Binder Content and Gradation for Bituminous Macadam (BM-II)

Date: 16-03-2020

After Extraction (Trial-1)

Total wt of the sample (gms):			485.00			
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-17) (Grading-II)	Remarks
26.5	0	0	0.0	100	100	Satisfactory
19	10	12	2.5	97.5	90-100	Satisfactory
13.2	63	74	15.3	84.7	56-88	Satisfactory
4.75	283	356	73.4	26.6	16-36	Satisfactory
2.36	49	402	82.9	17.1	4-19	Satisfactory
0.3	64	465	95.9	4.1	2-10	Satisfactory
0.075	11	472	97.3	2.7	0-8	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-2)

Total wt of the sample (gms):			484.72			
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
26.5	0	0	0.0	100	100	Satisfactory
19	10	11	2.3	97.7	90-100	Satisfactory
13.2	74	84	17.3	82.7	56-88	Satisfactory
4.75	303	386	79.6	20.4	16-36	Satisfactory
2.36	53	442	91.1	8.9	4-19	Satisfactory
0.3	33	470	96.9	3.1	2-10	Satisfactory
0.075	6	472	97.3	2.7	0-8	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-3)

Total wt of the sample (gms):			484.95			
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
26.5	0	0	0.0	100	100	Satisfactory
19	10	12	2.5	97.5	90-100	Satisfactory
13.2	86	97	20.0	80.0	56-88	Satisfactory
4.75	302	395	81.4	18.6	16-36	Satisfactory
2.36	33	425	87.6	12.4	4-19	Satisfactory
0.3	29	452	93.2	6.8	2-10	Satisfactory
0.075	3	455	93.8	6.2	0-8	Satisfactory

Remarks: Satisfactory

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Name of work:Improvements to Roads and Drains in Muthuraya Swamy layout, Doddabomasandra, Nanjappa layout, Chamundeshwari Layout in Ward No. 10.			
Test Reults of Bitumen Binder Content and Gradation for Bituminous Macadam (BM-II)			
IS 2386 (Part-1) 1963 (Reaffirmed-2011)		Date: 18-03-2020	
Lab I'd	ISO/IEC17025:2005		
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.		
Consultant	Transheight Consultants Private Limited		
Contractor	B.B Umesh (S.M.L.P Asphats)		
Customer Reference	BBMP/EE/BTP/WO/110/2019-20		
Source of Sample	Sample supplied by Agency		
Type of Mix	Bituminous Macadam (BM-II)		
Date of Test	3/18/2020		
Calculation			
	Chainage:		
	Trial 1	Trial 2	Trial 3
Wt of empty Bowl (g)	1031	1032	1031
Wt of empty Bowl + Mix before extraction (g)	1531	1532	1531
Wt of empty Bowl + Mix after extraction (g)	1514.2	1515.4	1514.1
Wt of filter paper before extraction (g)	3.5	3.5	3.5
Wt of filter paper after extraction (g)	5.38	5.34	5.28
Wt of fines (g)	1.88	1.84	1.78
Wt of aggrigate (g)	485.08	485.24	484.88
Wt of bitumin (g)	16.8	16.6	16.9
% binder contents in mix	3.46	3.42	3.49
Avg binder contents in mix (%)	3.46		
Remarks :			
PMC	Client	Contractor	

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Test Reults of Bitumen Binder Content and Gradation for Bituminous Macadam (BM-II)						
				Date: 18-03-2020		
After Extraction (Trial-1)						
Total wt of the sample (gms):			485.08			
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-17) (Grading-II)	Remarks
26.5	0	0	0.0	100	100	Satisfactory
19	9	11	2.3	97.7	90-100	Satisfactory
13.2	92	101	20.8	79.2	56-88	Satisfactory
4.75	301	405	83.5	16.5	16-36	Satisfactory
2.36	44	445	91.7	8.3	4-19	Satisfactory
0.3	29	471	97.1	2.9	2-10	Satisfactory
0.075	4	470	96.9	3.1	0-8	Satisfactory
Remarks: Satisfactory						
After Extraction (Trial-2)						
Total wt of the sample (gms):			485.24			
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
26.5	0	0	0.0	100	100	Satisfactory
19	10	12	2.5	97.5	90-100	Satisfactory
13.2	95	105	21.6	78.4	56-88	Satisfactory
4.75	298	400	82.5	17.5	16-36	Satisfactory
2.36	30	440	90.7	9.3	4-19	Satisfactory
0.3	38	465	95.9	4.1	2-10	Satisfactory
0.075	6	475	97.9	2.1	0-8	Satisfactory
Remarks: Satisfactory						
After Extraction (Trial-3)						
Total wt of the sample (gms):			484.88			
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
26.5	0	0	0.0	100	100	Satisfactory
19	15	16	3.3	96.7	90-100	Satisfactory
13.2	88	101	20.8	79.2	56-88	Satisfactory
4.75	291	395	81.4	18.6	16-36	Satisfactory
2.36	31	420	86.6	13.4	4-19	Satisfactory
0.3	38	455	93.8	6.2	2-10	Satisfactory
0.075	5	460	94.8	5.2	0-8	Satisfactory
Remarks: Satisfactory						

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PMC Client Contractor

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Name of work:Improvements to Roads and Drains in Muthuraya Swamy layout, Doddabomasandra, Nanjappa layout, Chamundeshwari Layout in Ward No. 10.			
Test Reults of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)			
IS 2386 (Part-1) 1963 (Reaffirmed-2011)		Date: 16-03-2020	
Lab I'd	ISO/IEC17025:2005		
Client	Bruhat Bengalore Mahanagara Palike (BBMP) ,Byatarayanapura,Bengaluru.		
Consultant	Transheight Consultants Private Limited		
Contractor	B.B Umesh (S.M.L.P Asphats)		
Customer Reference	BBMP/EE/BTP/WO/110/2019-20		
Source of Sample	Sample supplied by Agency		
Type of Mix	Bituminous Concrete (BC)		
Date of Test	3/16/2020		
Calculation			
	Chainage:		
	Trial 1	Trial 2	Trial 3
Wt of empty Bowl (g)	1031	1032	1031
Wt of empty Bowl + Mix before extraction (g)	1531	1532	1531
Wt of empty Bowl + Mix after extraction (g)	1504.9	1505.8	1505.1
Wt of filter paper before extraction (g)	3.5	3.5	3.5
Wt of filter paper after extraction (g)	5.23	5.57	5.4
Wt of fines (g)	1.73	2.07	1.9
Wt of aggrigate (g)	475.63	475.87	476
Wt of bitumin (g)	26.1	26.2	25.9
% binder contents in mix	5.49	5.51	5.44
Avg binder contents in mix (%)	5.48		
Remarks :			
PMC	Client	Contractor	

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Test Results of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)

Date: 16-03-2020

After Extraction (Trial-1)

Total wt of the sample (gms): 475.63

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-17) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	16	16	3.4	96.6	90-100	Satisfactory
9.5	93	109	22.9	77.1	70-88	Satisfactory
4.75	110	219	46.0	54.0	53-71	Satisfactory
2.36	50	269	56.6	43.4	42-56	Satisfactory
1.18	35	304	63.9	36.1	34-48	Satisfactory
0.6	39	343	72.1	27.9	26-38	Satisfactory
0.3	34	377	79.3	20.7	18-28	Satisfactory
0.15	27	404	84.9	15.1	12-20	Satisfactory
0.075	34	438	92.1	7.9	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-2)

Total wt of the sample (gms): 475.87

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	9	9	1.9	98.1	90-100	Satisfactory
9.5	94	103	21.7	78.3	70-88	Satisfactory
4.75	102	205	43.1	56.9	53-71	Satisfactory
2.36	52	257	54.0	46.0	42-56	Satisfactory
1.18	36	293	61.6	38.4	34-48	Satisfactory
0.6	44	337	70.9	29.1	26-38	Satisfactory
0.3	41	378	79.5	20.5	18-28	Satisfactory
0.15	21	399	83.9	16.1	12-20	Satisfactory
0.075	36	435	91.5	8.5	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-3)

Total wt of the sample (gms): 476

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	14	14	2.9	97.1	90-100	Satisfactory
9.5	92	106	22.3	77.7	70-88	Satisfactory
4.75	114	220	46.3	53.7	53-71	Satisfactory
2.36	51	271	57.0	43.0	42-56	Satisfactory
1.18	36	307	64.5	35.5	34-48	Satisfactory
0.6	35	342	71.9	28.1	26-38	Satisfactory
0.3	35	377	79.3	20.7	18-28	Satisfactory
0.15	26	403	84.7	15.3	12-20	Satisfactory
0.075	31	434	91.2	8.8	4-10	Satisfactory

Remarks: Satisfactory

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Name of work:Improvements to Roads and Drains in Muthuraya Swamy layout, Doddabomasandra, Nanjappa layout, Chamundeshwari Layout in Ward No. 10.			
Test Reults of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)			
IS 2386 (Part-1) 1963 (Reaffirmed-2011)			Date: 16-03-2020
Lab I'd	ISO/IEC17025:2005		
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.		
Consultant	Transheight Consultants Private Limited		
Contractor	B.B Umesh (S.M.L.P Asphats)		
Customer Reference	BBMP/EE/BTP/WO/110/2019-20		
Source of Sample	Sample supplied by Agency		
Type of Mix	Bituminous Concrete (BC)		
Date of Test	3/16/2020		
Calculation			
	Chainage:		
	Trial 1	Trial 2	Trial 3
Wt of empty Bowl (g)	1032	1033	1034
Wt of empty Bowl + Mix before extraction (g)	1532	1533	1534
Wt of empty Bowl + Mix after extraction (g)	1505.9	1506.8	1508
Wt of filter paper before extraction (g)	3.5	3.5	3.5
Wt of filter paper after extraction (g)	5.25	5.32	5.39
Wt of fines (g)	1.75	1.82	1.89
Wt of aggrigate (g)	475.65	475.62	475.89
Wt of bitumin (g)	26.1	26.2	26
% binder contents in mix	5.49	5.51	5.46
Avg binder contents in mix (%)	5.49		
Remarks :			
PMC	Client	Contractor	

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Test Results of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)

Date: 16-03-2020

After Extraction (Trial-1)

Total wt of the sample (gms): 475.65

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-17) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	12	14	2.9	97.1	90-100	Satisfactory
9.5	77	89	18.7	81.3	70-88	Satisfactory
4.75	115	202	42.5	57.5	53-71	Satisfactory
2.36	70	269	56.6	43.4	42-56	Satisfactory
1.18	22	285	59.9	40.1	34-48	Satisfactory
0.6	19	298	62.7	37.3	26-38	Satisfactory
0.3	41	345	72.5	27.5	18-28	Satisfactory
0.15	41	384	80.7	19.3	12-20	Satisfactory
0.075	33	431	90.6	9.4	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-2)

Total wt of the sample (gms): 475.62

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	11	12	2.5	97.5	90-100	Satisfactory
9.5	79	92	19.3	80.7	70-88	Satisfactory
4.75	101	190	39.9	60.1	53-71	Satisfactory
2.36	79	265	55.7	44.3	42-56	Satisfactory
1.18	29	290	61.0	39.0	34-48	Satisfactory
0.6	11	305	64.1	35.9	26-38	Satisfactory
0.3	34	352	74.0	26.0	18-28	Satisfactory
0.15	44	395	83.0	17.0	12-20	Satisfactory
0.075	40	432	90.8	9.2	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-3)

Total wt of the sample (gms): 475.89

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	13	9	1.9	98.1	90-100	Satisfactory
9.5	71	82	17.2	82.8	70-88	Satisfactory
4.75	110	189	39.7	60.3	53-71	Satisfactory
2.36	68	251	52.8	47.2	42-56	Satisfactory
1.18	32	279	58.7	41.3	34-48	Satisfactory
0.6	22	301	63.3	36.7	26-38	Satisfactory
0.3	50	351	73.8	26.2	18-28	Satisfactory
0.15	44	395	83.0	17.0	12-20	Satisfactory
0.075	39	432	90.8	9.2	4-10	Satisfactory

Remarks: Satisfactory

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Name of work:Improvements to Roads and Drains in Muthuraya Swamy layout, Doddabomasandra, Nanjappa layout, Chamundeshwari Layout in Ward No. 10.			
Test Reults of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)			
IS 2386 (Part-1) 1963 (Reaffirmed-2011)		Date: 18-03-2020	
Lab I'd	ISO/IEC17025:2005		
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.		
Consultant	Transheight Consultants Private Limited		
Contractor	B.B Umesh (S.M.L.P Asphats)		
Customer Reference	BBMP/EE/BTP/WO/110/2019-20		
Source of Sample	Sample supplied by Agency		
Type of Mix	Bituminous Concrete (BC)		
Date of Test	3/18/2020		
Calculation			
	Chainage:		
	Trial 1	Trial 2	Trial 3
Wt of empty Bowl (g)	1034	1035	1034
Wt of empty Bowl + Mix before extraction (g)	1534	1535	1534
Wt of empty Bowl + Mix after extraction (g)	1508.0	1509.2	1507.8
Wt of filter paper before extraction (g)	3.5	3.5	3.5
Wt of filter paper after extraction (g)	5.26	5.34	5.39
Wt of fines (g)	1.76	1.84	1.89
Wt of aggrigate (g)	475.76	476.04	475.69
Wt of bitumin (g)	26	25.8	26.2
% binder contents in mix	5.46	5.42	5.51
Avg binder contents in mix (%)	5.46		
Remarks :			
PMC	Client	Contractor	

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Test Results of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)

Date: 18-03-2020

After Extraction (Trial-1)

Total wt of the sample (gms):			475.76			
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-17) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	12	16	3.4	96.6	90-100	Satisfactory
9.5	95	104	21.9	78.1	70-88	Satisfactory
4.75	108	215	45.2	54.8	53-71	Satisfactory
2.36	49	265	55.7	44.3	42-56	Satisfactory
1.18	38	298	62.6	37.4	34-48	Satisfactory
0.6	42	342	71.9	28.1	26-38	Satisfactory
0.3	35	378	79.5	20.5	18-28	Satisfactory
0.15	33	409	86.0	14.0	12-20	Satisfactory
0.075	30	437	91.9	8.1	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-2)

Total wt of the sample (gms):			476.04			
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	10	13	2.7	97.3	90-100	Satisfactory
9.5	93	105	22.1	77.9	70-88	Satisfactory
4.75	108	215	45.2	54.8	53-71	Satisfactory
2.36	58	274	57.6	42.4	42-56	Satisfactory
1.18	36	308	64.7	35.3	34-48	Satisfactory
0.6	31	336	70.6	29.4	26-38	Satisfactory
0.3	35	372	78.2	21.8	18-28	Satisfactory
0.15	26	392	82.4	17.6	12-20	Satisfactory
0.075	38	435	91.4	8.6	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-3)

Total wt of the sample (gms):			475.69			
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	9	13	2.7	97.3	90-100	Satisfactory
9.5	94	108	22.7	77.3	70-88	Satisfactory
4.75	111	213	44.8	55.2	53-71	Satisfactory
2.36	45	254	53.4	46.6	42-56	Satisfactory
1.18	46	302	63.5	36.5	34-48	Satisfactory
0.6	41	340	71.5	28.5	26-38	Satisfactory
0.3	35	371	78.0	22.0	18-28	Satisfactory
0.15	26	395	83.0	17.0	12-20	Satisfactory
0.075	38	431	90.6	9.4	4-10	Satisfactory

Remarks: Satisfactory

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Name of work:Improvements to Roads and Drains in Muthuraya Swamy layout, Doddabomasandra, Nanjappa layout, Chamundeshwari Layout in Ward No. 10.			
Test Reults of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)			
IS 2386 (Part-1) 1963 (Reaffirmed-2011)		Date: 18-03-2020	
Lab I'd	ISO/IEC17025:2005		
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.		
Consultant	Transheight Consultants Private Limited		
Contractor	B.B Umesh (S.M.L.P Asphats)		
Customer Reference	BBMP/EE/BTP/WO/110/2019-20		
Source of Sample	Sample supplied by Agency		
Type of Mix	Bituminous Concrete (BC)		
Date of Test	3/18/2020		
Calculation			
	Chainage:		
	Trial 1	Trial 2	Trial 3
.	1034	1035	1035
Wt of empty Bowl + Mix before extraction (g)	1534	1535	1535
Wt of empty Bowl + Mix after extraction (g)	1508.2	1508.9	1509.1
Wt of filter paper before extraction (g)	3.5	3.5	3.5
Wt of filter paper after extraction (g)	5.33	5.67	5.39
Wt of fines (g)	1.83	2.17	1.89
Wt of aggrigate (g)	476.03	476.07	475.99
Wt of bitumin (g)	25.8	26.1	25.9
% binder contents in mix	5.42	5.48	5.44
Avg binder contents in mix (%)	5.45		
Remarks :			
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Test Results of Bitumen Binder Content and Gradation for Bituminous Concrete (BC)

Date: 18-03-2020

After Extraction (Trial-1)

Total wt of the sample (gms): 476.03

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-17) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	11	13	2.7	97.3	90-100	Satisfactory
9.5	74	89	18.7	81.3	70-88	Satisfactory
4.75	112	201	42.2	57.8	53-71	Satisfactory
2.36	75	270	56.7	43.3	42-56	Satisfactory
1.18	28	302	63.4	36.6	34-48	Satisfactory
0.6	22	328	68.9	31.1	26-38	Satisfactory
0.3	45	382	80.2	19.8	18-28	Satisfactory
0.15	42	416	87.4	12.6	12-20	Satisfactory
0.075	30	452	95.0	5.0	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-2)

Total wt of the sample (gms): 476.07

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	14	13	2.7	97.3	90-100	Satisfactory
9.5	75	90	18.9	81.1	70-88	Satisfactory
4.75	102	192	40.3	59.7	53-71	Satisfactory
2.36	81	272	57.1	42.9	42-56	Satisfactory
1.18	31	302	63.4	36.6	34-48	Satisfactory
0.6	15	308	64.7	35.3	26-38	Satisfactory
0.3	45	362	76.0	24.0	18-28	Satisfactory
0.15	43	398	83.6	16.4	12-20	Satisfactory
0.075	41	445	93.5	6.5	4-10	Satisfactory

Remarks: Satisfactory

After Extraction (Trial-3)

Total wt of the sample (gms): 475.99

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per MORTH (Table 500-23) (Grading-II)	Remarks
19	0	0	0.0	100	100	Satisfactory
13.2	11	15	3.2	96.8	90-100	Satisfactory
9.5	73	85	17.9	82.1	70-88	Satisfactory
4.75	110	195	41.0	59.0	53-71	Satisfactory
2.36	75	263	55.2	44.8	42-56	Satisfactory
1.18	32	294	61.8	38.2	34-48	Satisfactory
0.6	25	312	65.5	34.5	26-38	Satisfactory
0.3	43	358	75.2	24.8	18-28	Satisfactory
0.15	43	401	84.2	15.8	12-20	Satisfactory
0.075	40	432	90.8	9.2	4-10	Satisfactory

Remarks: Satisfactory

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